

Introduction to Credit Research Perspectives on Corporates and Banks

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# Learning Objectives

- Learn what fundamental analysis entails and how it is used to inform the investment process.
- Gain an understanding of how fundamental analysis is conducted on nonbank companies.
- Look at how credit analysis is conducted on banks using the CAMELS framework.
- Learn how fundamental analysis is different than market-based analysis and the drawbacks of using just a market approach.



## What is Fundamental Credit Analysis?

- Fundamental analysis attempts to develop insight by looking holistically at a business to determine its credit quality and potential risks.
  - Analyze the three financial statements (Income Statement, Balance Sheet, Cash Flows)
  - Look at the competitive environment and profit drivers (Porter's 5 Forces, Peer Analysis)
  - Utilize specific credit ratios to form an opinion on credit quality (leverage, cash flow, interest coverage)
- Develop an understanding of rating process to anticipate rating changes before they happen.
  - Speak with Nationally Recognized Statistical Rating Organization (NRSRO) analysts to understand thinking and process.
  - Analyze rating triggers to determine whether an issuer will breach them.
  - Both positive and negative migration present opportunities.

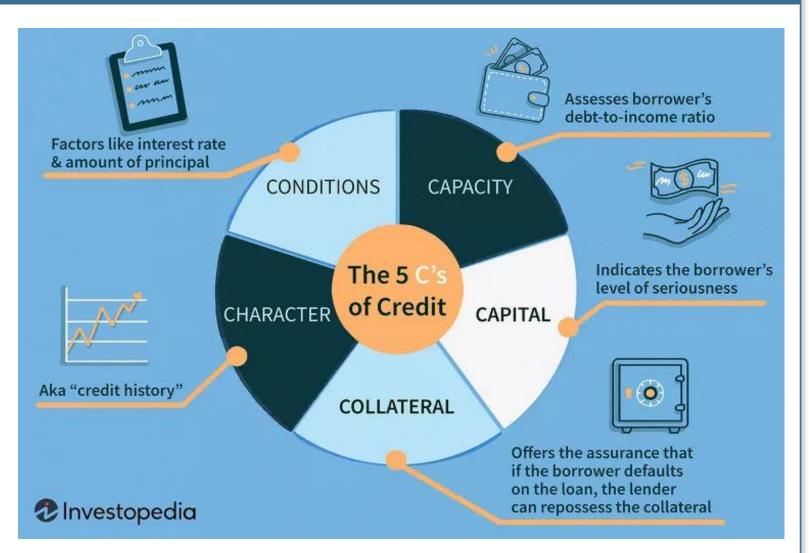


## Corporate Credit Analysis (5 Cs)



# Corporate Credit Analysis (The 5 C's)

- Character
- Capacity
- Capital
- Collateral
- Conditions





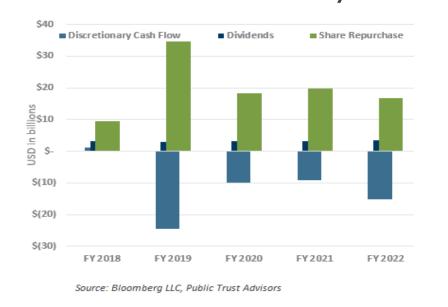
#### Character

- Character
  - Refers to a company's willingness to pay back debts.
  - Considers things like prior defaults, management, subordination of debt.
- For investment grade (IG) companies' default is not usually the biggest concern. We look at how management teams prioritize excess cash flow to judge "character."
- For example, a company using debt or excess cash to repurchase shares shows that the management team favors equity holders over debt holders.



#### Character: Oracle Corp. Example

- In 2019, Oracle began repurchasing significant amounts of stock at the direction of its CEO, Larry Ellison.
- Repurchases in 2019 amounted to \$34.50 billion which was ~3x higher than the prior year and used up the company's excess cash balance resulting in a "net leverage position" for the first time in years.







#### Data as of 12/31/2022

Representative example. Not intended to be a security recommendation.

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### Character: Oracle Corp. Example (cont.)

- From 2019 onward, Oracle repurchased between \$16 to \$20 billion of shares each year.
   We call this a "transfer of risk."
  - Oracle's management team was weakening the company's credit profile in order to provide better returns for equity investors.
- The increase in repurchases led to a one-notch downgrade at S&P in July 2019 and another in June 2020. Throughout the process, Oracle would not give guidance on the level of repurchases which left debt investors and rating agencies in the dark.
- Finally, after formally breaching S&P's leverage trigger in 2021, Oracle would go on to receive two more downgrades before settling at "BBB."

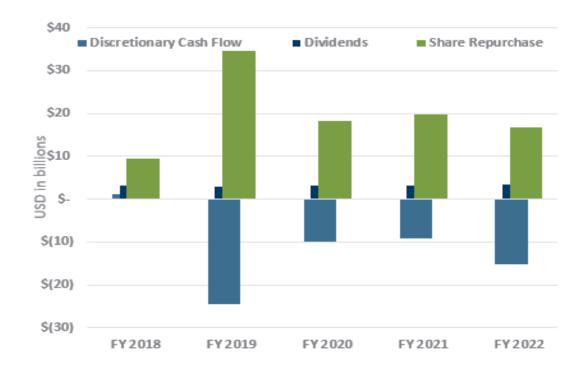


## Capacity

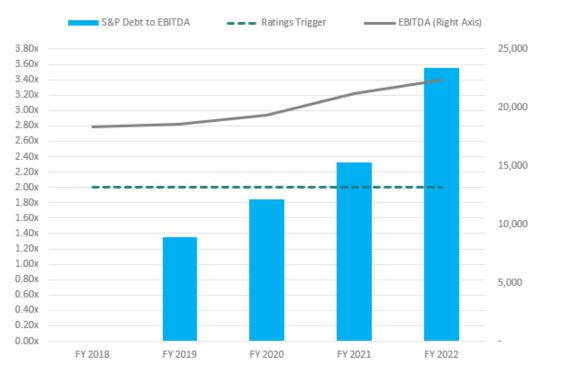
- Capacity refers to a company's current level of debt and its ability to take on more.
- We look at three main metrics to judge capacity.
  - Leverage = Net Debt/EBITDA
  - Interest Coverage Ratio = EBIT/Interest Expense
  - Discretionary Cash Flow = Free Cash Flow (FCF) Dividends Share Repurchases
- If we know what leverage number will trigger a downgrade, it can help us determine how much additional debt a company can take on before it is downgraded.



## Capacity



Source: Bloomberg LLC, Public Trust Advisors



Source: Bloomberg LLC, S&P Cap IQ, Public Trust Advisors



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## Capital

- Capital is primarily a concern for retail borrowing which shows the borrowers level of seriousness.
  - Think the down payment on your home.
- For companies, debt investors have a senior claim to equity investors in the event of liquidation which satisfies to the capital portion of the 5 C's.



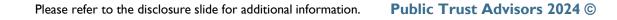
## Collateral

- Debt can either be secured or unsecured which is whether the loan is secured by some form of tangible asset.
- Most IG debt is unsecured which means it is backed primarily by the company's cash flows and operations.
- If debt is secured it generally means it is backed by a tangible asset. For example, to get better loan terms, a company may put up a manufacturing plant as collateral.



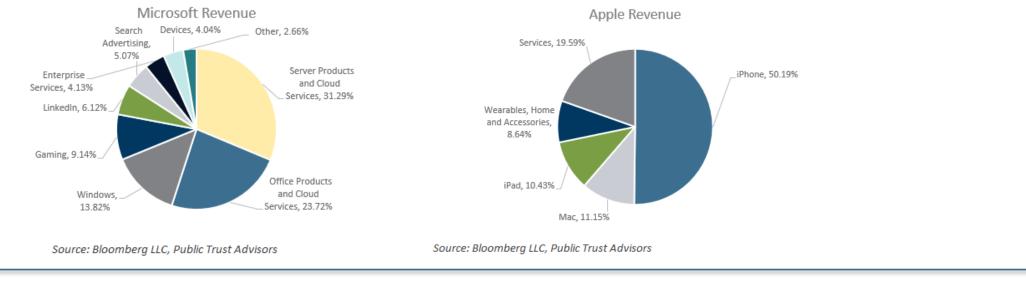
## Conditions

- Conditions refer to the descriptive characteristics of the loan or bond.
  - Maturity
  - Interest Rate
  - Covenants
- Typically, the more highly rated a company by the NRSROs the more favorable the borrowing terms it can get. Companies also generally must pay a higher rate to borrow for longer periods of time.
- Covenants refer to specific terms placed on a loan and are not very common in IG. These could be achieving specific financial targets or keeping leverage under a certain level.



### **Other Factors**

- For corporates, the 5 Cs aren't the only factors we look at.
- A business' competitive environment affects credit quality.
  - Intel was recently downgraded due to an erosion of its competitive position.
- Revenue diversity is an important credit factor as well.
  - As of the end of 2021, Microsoft had a AAA rating because its revenues were more diversified. Apple did not get a AAA rating because 50% of its revenue comes from iPhone.





# Bank Credit Analysis (CAMELS)



## Bank Credit Analysis (CAMELS)

- Bank's have a unique credit profile compared to corporates which requires a different approach.
- Banks utilize a strategy called "Asset Liability Matching" which means that leverage is not as important of a consideration.
  - Banks issue loans using deposits and debt, then match assets with similar time frames to those debts.
- Banks are the largest participant in the commercial paper market making them key to a successful money market investment strategy.



# Bank Credit Analysis (CAMELS)

- Capital
  - The amount of equity that can absorb losses.
- Asset Quality
  - The underlying quality of the bank's loans.
- Management Strategy
- Earnings and Profitability
- Liquidity & Funding
  - The bank's ability to meet short-term outflows and fund itself through deposits and debt.
- Sensitivity (to interest rates)





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## Capital

- A bank's capital is the amount of equity investment that can absorb losses. It is split into three tranches.
- Tier 1 Capital
  - Going concern capital. High quality and absorbs losses first. Absorb losses while bank is still operating normally.
- Tier 2 Capital
  - Absorbs losses after the bank is a gone concern. AKA after a bank has gone insolvent.
- Tier 3 Capital
  - Mostly market risk instruments that could absorb some loss if needed. Lowest quality of the three.



## Tier 1 Capital

 Tier 1 capital is designed to protect banks and the financial system post-2008. Tier 1 capital is comprised of Common Equity Tier 1 Capital (CET1) and Additional Tier 1 Capital (AT1).

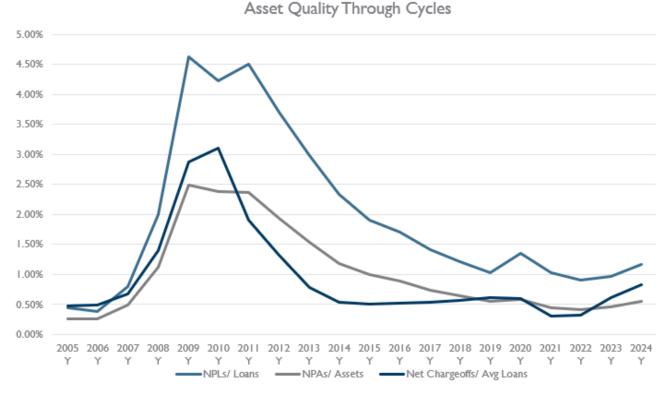
#### • CET1:

- Primarily common stock ownership. This capital was introduced in 2014 and can absorb losses immediately as they occur.
- All banks are required to keep a minimum balance of CET1 Capital that is defined by their local regulators.
- AT1:
  - Made up of non-CET1 instruments like a convertible security for example.



## Asset Quality

- Asset quality measures the health of a bank's loan book.
- Usually measured by:
  - <u>Net charge offs (NCOs)</u>: actual losses taken on loans.
  - <u>30,60, and 90+ day delinquencies</u>: number of loans that are behind on payment.
  - <u>Non-performing loans (NPLs)</u>: percentage of loans currently not being paid.
  - <u>Non-performing assets (NPAs)</u>: are like NPLs but can include other assets like mortgagebacked securities or bonds.







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## Management Strategy

• Bank management teams generally lay out medium-term strategies and financial targets for investors.

• We benchmark management teams on their ability to consistently hit these targets and make decisions that will grow the bank.

- Compliance failures and reputational risks also fall to management and can have a significant impact on the credit quality of a bank.
  - Credit Suisse's initial fall to BBB- is an example of this.



## Earnings & Profitability

- A bank's ability to consistently generate profit and keep its expenses under control through cycles is a key credit consideration.
- Banks derive revenue from interest on loans, investment banking activities, trading, wealth management, and more.
- Metrics:
  - Return on equity (ROE)
  - Return on assets (ROA)
  - Net interest margin (NIM)
  - Noninterest income/expense
  - Efficiency ratio (costs/revenue)



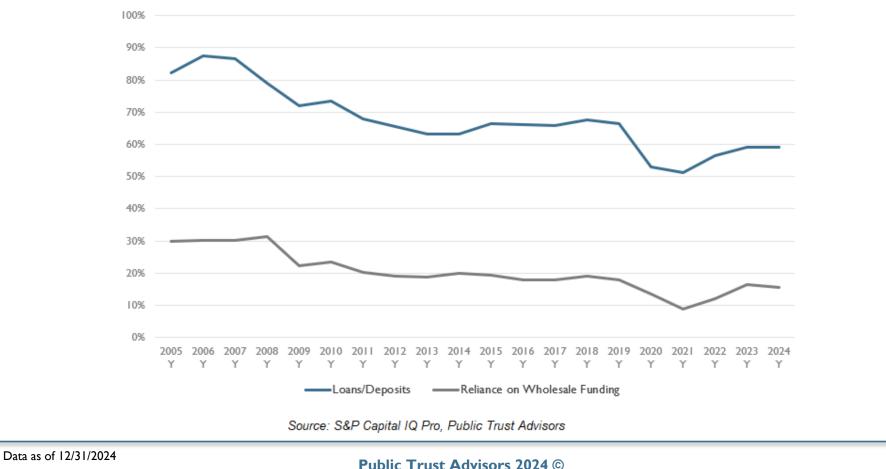
# Liquidity & Funding

- Banks primarily fund their operations through deposits. But large banks with complex operations frequently also use wholesale funding to fill the gaps.
  - Wholesale funding is when a bank issues debt to investors which can be shortterm (commercial paper) or longer-term (bonds).
- Deposits tend to be cheaper but not all operations generate deposits.
- Banks must keep enough liquid assets on hand to meet redemptions and operational expenses.
  - Liquid assets are those that can be sold/used without a substantial decrease in value.



## Liquidity & Funding (cont.)

 Large U.S. Banks are flush with deposits post-pandemic but have increasingly relied on wholesale funding despite higher rates.



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### Sensitivity

- Banks earn profit from the difference between the interest they can charge on loans and the interest paid on deposits.
- Fixed rate loans lose value when rates rise/gain value when rates fall.
- Variable rate loans gain value when rates rise/lose value when rates fall.
- This can extend to the debt that the bank issues as well. How a balance sheet reacts to interest rate changes is what we call interest sensitivity.



# Bank Analysis Case Study: Société Générale



## Capital: Société Générale (SG)

- Beginning in 2017, SG saw material declines in its capital due to operational performance and issues with subsidiaries.
- SG was forced to sell several subsidiaries to generate capital and hit managements 12% CET1 target. Soc Gen Capital Tiers
- However, the capital build that occurred in 2018 did lead to a positive outlook at the rating agencies.



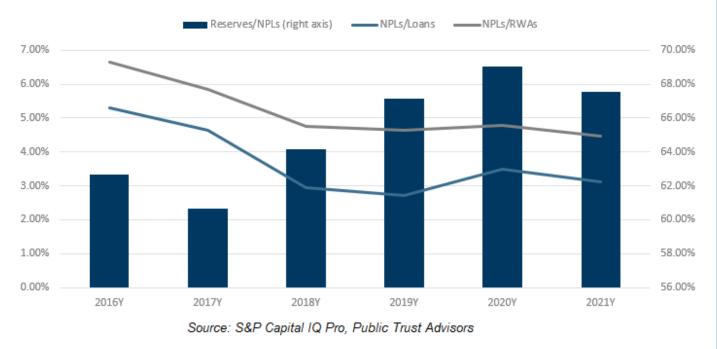
Source: S&P CapIQ Pro, Public Trust Advisors



## Asset Quality: Société Générale (SG)

- Like most global banks, SG has seen its asset quality strengthen to near records.
- Improving asset quality from 2016 to 2019 helped the bank to stave off downgrade while its capital balance declined.
- However, the increase in NPLs during 2020 (because of the pandemic) led to higher provisions and a negative outlook at the rating agencies.

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### Management Strategy: Société Générale (SG)

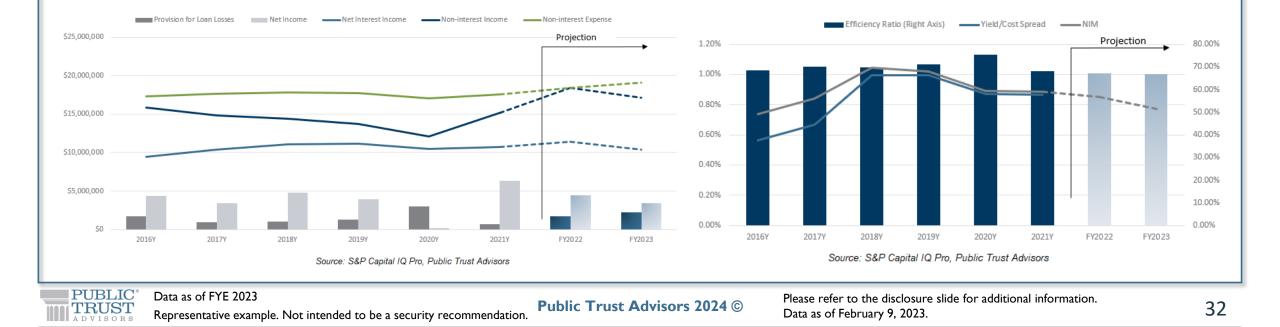
 SG's management has undergone a three-year restructuring plan that focused on cutting costs, scaling back capital markets activity, and exiting high-risk geographies.

• Execution of the three-year plan has led to better capital levels and more predictable financial performance.



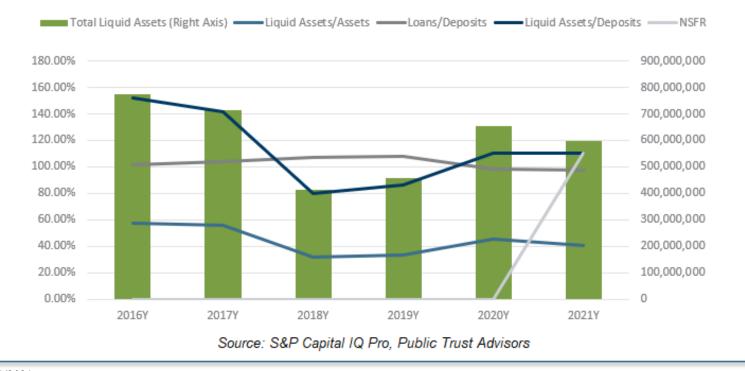
## Earnings and Profitability: Société Générale (SG)

- COVID hit SG particularly hard, and the bank nearly took a loss in 2020.
- Since then, we have seen the bank bounce back strongly, and its restructuring plan has led to a positive trajectory on earnings and expenses.



## Liquidity & Funding: Société Générale (SG)

- SG has historically lent more than its deposit balance, but the influx of deposits during the pandemic changed that. This has made the bank less reliant on market funding.
- Banks are now required to report a Net Stable Funding Ratio which measures how stable and liquid the banks funding is.



Data as of 12/31/2021 Representative example. Not intended to be a security recommendation.

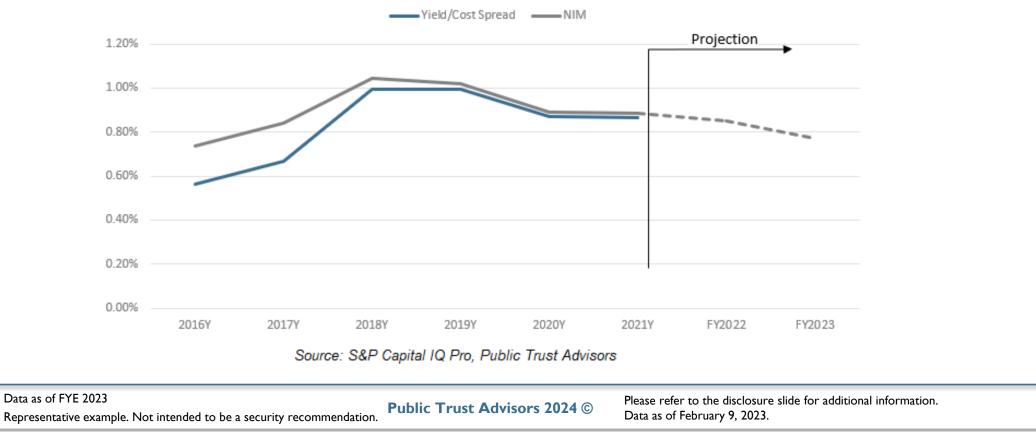
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## Interest Sensitivity: Société Générale (SG)

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- Because SG has a higher reliance on noninterest income, it is less sensitive to changes in interest rates.
- This lower sensitivity means that it does not benefit as much from rising rates, and its revenues are more closely tied to financial markets than central bank policies and rates.

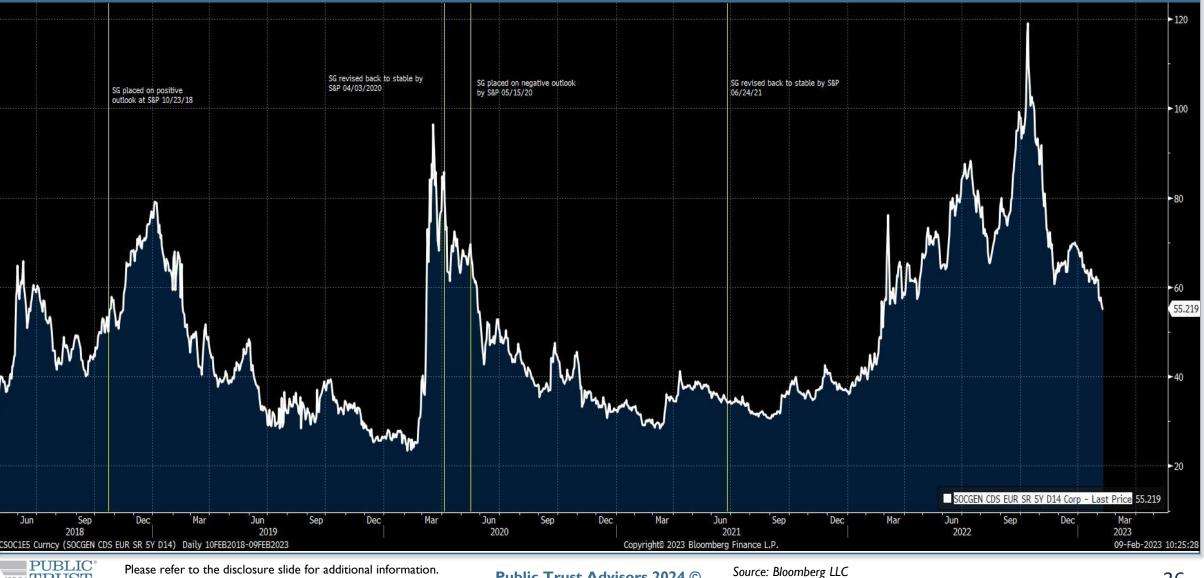


## Fundamental vs. Market Based Credit Analysis

- Some managers use market-based credit analysis in conjunction with ratings.
- Most market-based approaches look at the spreads on credit default swaps (CDS) to determine how the market feels about a company's debt.
- Increases in CDS spreads indicate that a company may have weakening credit quality, and decreases can indicate a company has improving credit quality.
- There is a lot of noise in CDS spreads though, and it can be tough to determine what is material and what isn't.



#### Fundamental vs. Market Based Credit Analysis



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## Conclusion



## Conclusion

- Fundamental credit analysis is a framework that looks at a company from a wholistic perspective to judge its credit quality.
- It seeks to analyze trends in operating performance to stay ahead of rating agency actions and credit events.
- Corporates utilize a framework based on the 5 C's and are focused on business operations, capacity for additional debt, use of cash, and competitive environment.
- Banks utilize a framework that's based on capital, asset quality, profitability, liquidity, and interest sensitivity.
- Market approaches can provide insight but can move opposite or lag real actions.



# Questions?



## APPENDIX: MONEY MARKET CREDIT INVESTMENTS



Please refer to the disclosure slide for additional information regarding this presentation.

## COMMERCIAL PAPER



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## COMMERCIAL PAPER (CP)

- CP is essentially an unsecured promissory note issued for a specific dollar amount and maturity date. It is considered extremely safe & issued by very high-quality counterparties. Primary risk is related to issuer performance.
- Unsecured and relatively inexpensive source of short-term cash and bridge financing. Highly liquid market enable issuers to easily roll balances, thereby becoming a source of consistent financing
- CP is a discount security, meaning the security pays no interest and the investor purchases at a price less than
  par and receives face value at maturity. Typically offers ~10-20bps more than T-bills.
- Issues are in large denominations (\$100K+) and are sold directly by the issuer to either primary market or the investor.



# ASSET-BACKED COMMERCIAL PAPER (ABCP)



### ASSET-BACKED CP (ABCP)

- ABCP is issued by high-grade issuers, typically generates yields above treasuries in a flexible range of maturities, and provides exposure to diverse asset classes (i.e. auto loans, receivables, credit card balances).
- Additional spread is the "complexity premium"
- Issuers are by bankruptcy remote entities called "conduits", which may be fully or partially backed by a sponsoring bank. The ABCP conduit structure inherently reduces risk, resulting in credit risk approximately akin to CDs.
- Exempt from SEC registration which is more costly and takes time for approval.
- Primary risk is systemic.



## CERTIFICATES OF DEPOSIT



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### CERTIFICATES OF DEPOSIT (CD/YCD)

- CDs are time deposits issued electronically by domestic banks for a stated term providing interest reflecting both a small maturity premium and an illiquidity premium.
- CDs are insured by the Federal Deposit Insurance Corporation (FDIC) and the National Credit Union Administration (NCUA) for amounts equal to or below \$250,000. These may be available to institutions through brokered CD structures.
- Yankee CDs (YCDs) are negotiable CDs issued by the U.S. based branch of a foreign bank in US dollars.YCDs generally provide greater yield than domestic CDs, but do not receive FDIC backing.
  - Foreign banks issue YCDs to increase their dollar reserves and grow their asset base



## **REPURCHASE AGREEMENT**



### **REPURCHASE AGREEMENT (REPO)**

- Repo are short-term borrowing agreements wherein securities are loaned to a counterparty with a guaranteed repurchase at a future date for a stated price. The repo rate is the difference between the original sale and promised repurchase price.
- General collateral (GC) enables counterparties to transact swiftly with high-quality collateral identified after settlement.
  - GC may be either traditional or non-traditional. Traditional repo risk is equal to that of the underlying assets. Non-traditional repo risk is related to both the assets and the counterparty.

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